

BIOSTIMULATORY-BIOINTEGRITY POLICY SCIENCE ADVISORY PANEL MEETING #2

December 12, 2018

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WELCOME & INTRODUCTIONS

MEETING FORMAT/AGENDA

December 12, 2018

Early Morning

- Introductions and welcome, review meeting goals and agenda
- Update on status of the combined policy
- Overview of charge questions
- Overview of SAG comments

Late Morning and Afternoon

- Brief technical presentations on products
- Stakeholder perspectives and concerns
- Science Panel questions

Opportunity for other SAG comments at the end of the day (please submit a blue comment request card by 3 pm so that we can cue you up)

MEETING FORMAT/AGENDA

December 13, 2018

Early Morning- Mid-Afternoon

- Closed Session (Panel members only)

Late Afternoon (3 pm)

- Science Panel report out
 - Preliminary reflections on charge questions and on science products

Following the meeting, the Science Panel will review technical products and questions/comments

We will use the 3rd Panel meeting to hold a Panel report out on their findings, plus reflections on advisory group concerns and issues

PROJECT SCOPE

Amendment to the Inland Surface Waters Enclosed Bays and Estuaries (ISWEBE) Plan to:

- Establish a framework to control eutrophication and support biological integrity in all waterbodies
- Focus on wadeable streams

Likely Key Components:

- Narrative biostimulatory water quality objective
- Indicators and thresholds for biostimulatory substances and conditions
- Biological integrity assessment methods
- Implementation approaches

AMENDMENT TO THE ISWEBE PLAN (Phase 1)

BIOSTIMULATORY

ALL WATERBODIES

Narrative Water Quality Objective for
Biostimulatory Substances & Conditions

Approach to Derive Numeric Thresholds
from Narrative Objectives

WADEABLE STREAMS

Numeric Thresholds Based on
Biointegrity Goals

Numeric Thresholds Based on Human
Use Goals

Implementation Approaches to Control
Eutrophication

BIOLOGICAL INTEGRITY

ALL WATERBODIES

TBD: Narrative Objective?

WADEABLE STREAMS

Biological Integrity Assessment
Methods: CSCI & ASCI

Causal Assessment (Stressor ID)
Methods

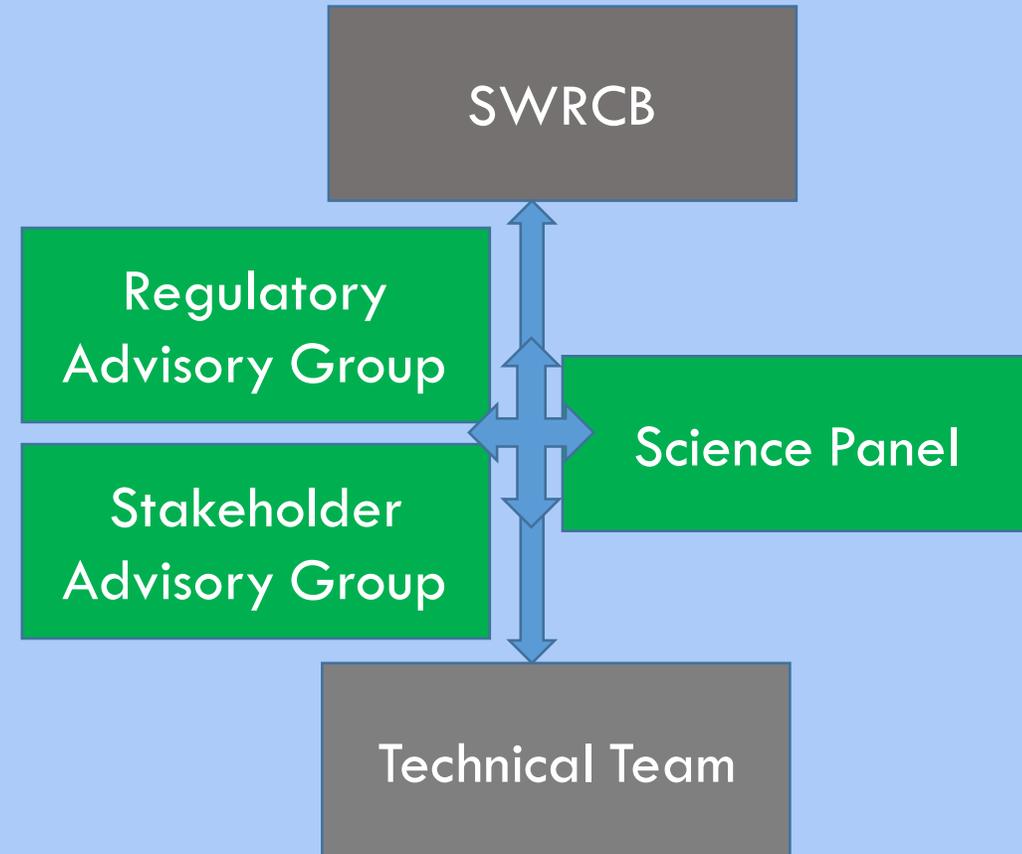
Implementation Approaches to Protect
Biological Integrity

PROJECT TIMELINE

TASK	TARGET DATE
Detailed Work Plan for Policy Development	December 2018
Stakeholder Advisory Group Meetings	October 2018 Jan/Feb 2019 Ongoing through policy development
Science Panel Meetings	December 12-13, 2018 March 2019 (tentative) Possible meeting after release of draft Policy
Draft Policy Provisions	Summer 2019
Scientific Peer Review	TBD: possible winter 2019
Public Review Draft	TBD: possible spring 2020
Board Workshops	TBD: possible spring 2020
Response to Comments	TBD: possible summer 2020
Board Consideration of Adoption	TBD: possible fall 2020

PROJECT WORK GROUPS

- State Water Resources Control Board is lead
- Three advisory groups
 - Regulatory Advisory Group
 - Stakeholder Advisory Group
 - Science Panel
- Technical Team (SCCWPRP scientists)



SCIENCE ADVISORY PANEL ROLE

- Provide independent technical review of policy development products
 - Includes the workplan and individual tasks
- Provide critical scientific insight based on extensive real world experience
 - Data gaps, alternative approaches, limits of interpretation
 - Potential management implications
- Like the SAG, the role is not approval
 - Its advisory

GOALS FOR TODAY

- Receive preliminary technical feedback from Science Advisory Panel on the draft science products
- Provide an opportunity for policy-makers, technical staff, and stakeholders to pose technical questions and receive input from the Science Panel

DRAFT SCIENCE PRODUCTS

BIOINTEGRITY PRODUCTS

1. A Non-predictive Algal Index for Complex Environments (Also known as 'Algal Stream Condition Index' or ASCI), Theroux et al. in prep
2. Development of Benthic Macroinvertebrate and Algal Biological Condition Gradient Models for California Wadeable Streams, Paul et al. in prep
3. Prioritizing Management Goals for Stream Biological Integrity Within the Developed Landscape Context, Beck et al., in review

Finalize
Spring 2019

BIOSTIMULATORY PRODUCTS

4. Approach to Assessment, Prevention and Management of Biostimulatory Impacts to California Estuaries, Enclosed Bays, and Inland Waterbodies, Sutula SCCWRP Technical Report [TR] 871
5. Scientific Bases for Assessment, Prevention, and Management of Biostimulatory Impacts in California Wadeable Streams, Sutula et al, SCCWRP TR 1048
6. Eutrophication Indicator Thresholds Protective of Biological Integrity in California Wadeable Streams, Mazor et al, in prep.

Finalize
before draft
Staff Report

SUMMARY OF CHARGE QUESTIONS AND REVIEW INSTRUCTIONS TO SCIENCE PANEL

Charge Questions:

- Adequacy of datasets
- Conceptual models
- Indicators/measures
- Analytical approaches
- Performance evaluations
- Applicability of models
- Specific technical questions
- Technical stakeholder concerns

Instructions to Science Panel: Limit responses to scientific and technical merit of the products under review. Questions that cannot be addressed prior to key policy decisions will be tabled for future discussions as policy options are being developed.

QUESTIONS?